

General Risk Assessment Form

Date: 12/09/2019	Assessed by: Jamie Sloan	Validated by: Linda Bennett	Location: Classroom (Space Pavilion) or Wolfson auditorium	Assessment ref no: 2019JBDC0911	Review date: 12/09/2020
Task / premises: The Science of Jodrell Bank workshop, for KS3 & KS4 students (age 11 to 16). Involves presenter demonstrations and student practical activities. This document describes activities specific to this workshop; please also see 'General risk assessment for all workshops' which also applies.					
Activity	Hazard	Person(s) in danger	Existing measures to control risk	Risk rating	Result
Use of laser ray boxes	Damage to eye from lasers	All	<ul style="list-style-type: none"> The Laser ray box provided contains a Class 2 LASER. This is a low power LASER (1 mW) classified "safe because the blink reflex will limit the exposure to no more than 0.25 seconds". Students are instructed by the presenter during the briefing not to direct the laser into their, or anyone else's eyes Any students observed behaving dangerously will be immediately challenged and where necessary, prevented from further participation in activity or workshop 	LOW	A
Using portable infra-red camera	Tripping on cables	Presenter	<ul style="list-style-type: none"> Presenter will position camera and cables so as to not disrupt thoroughfares Camera and cables will be positioned in safe location when not in use Student volunteers will be guided by presenter into a suitable location, away from any cable trip hazards 	LOW	A
Using a plasma ball to light a bulb wirelessly	Electrocution	Presenter	<ul style="list-style-type: none"> Strip light to have metal ends covered in insulating tape 	LOW	A
	Cuts from broken glass	Presenter	<ul style="list-style-type: none"> Light bulb demonstration to be completed by presenter only If participants are given the opportunity to touch the plasma ball, it will be supervised 	LOW	A
Pulsar demonstration – volunteer turns on the spot whilst holding torches to represent a pulsar	Dizziness from spinning	Volunteer	<ul style="list-style-type: none"> If volunteer stands and turns themselves, they are able to control the rate of their own spin If volunteer is seated on a freely spinning office chair, presenter will turn them at a reasonable rate Presenter overseeing demonstration. Demonstration will be stopped if unsafe behaviour occurs 	LOW	A
	Dazzled by torchlight	All	<ul style="list-style-type: none"> Standard battery operated hand held torches to be used One torch to be angled towards the ceiling, one towards the floor, avoiding shining torches directly into eye line 	LOW	A

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Demonstrating contraction using Hobberman sphere	Trapped fingers	Presenter	<ul style="list-style-type: none"> Hobberman sphere is a toy made of plastic, risk of injury is low Demonstration to be completed by presenter only 	LOW	A